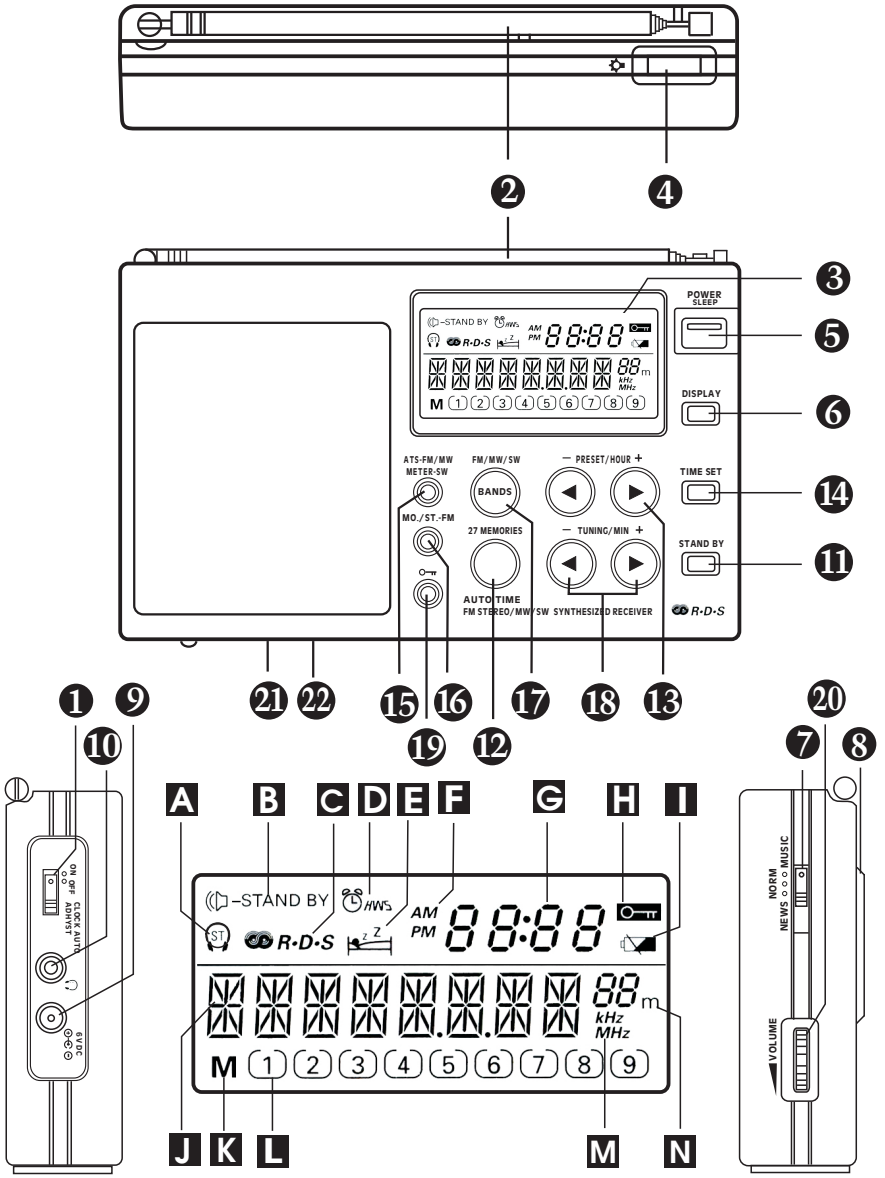
SANGEAN

ATS 305


POWER
SLEEP
DISPLAY
TIME SET
STAND BY
ATS-FM/MW
METER-SW
FM/MW/SW
BANDS
PRESET/HOUR
MO./ST.-FM
27 MEMORIES
TUNING/MIN
AUTO TIME
FM STEREO/MW/SW SYNTHESIZED RECEIVER
R·D·S
STAND BY
AM
PM
kHz
MHz
M
1 2 3 4 5 6 7 8 9
NORM
NEWS
MUSIC
VOLUME
ON OFF
CLOCK AUTO
ANT/EXT
EXT.DC

Contents

Operating elements and their function	4
Display indicators	5
Features	6
Power supply	7
Battery exchange	7
Manual setting of clock	8
Automatic setting of time	8
Setting alarm	9
HWS alarm	9
Radio alarm	9
Switching off alarm	10
Radio	10
ATS (Automatic Tuning System)	10
Selection of radio station	11
Automatic radio station selection	11
Direct selection of radio station	12
Short wave	12
Radio station memory	13
Call up of stored radio station	13
Alteration of memory	14
Memory Scan	14
Mono / Stereo	15
Sleep Timer	15
Display illumination	15
RESET	16
Technical Data	16

Operating elements and their function

❶ CLOCK AUTO ADJUST	**ON**	If a FM-station with **RDS-CT** is received, the clock automatically sets itself.
	OFF	The clock can be set manually.
❷		FM-telescopic aerial
❸		Display
❹		Display illumination
❺ POWER/SLEEP		Radio on/off or automatic sleep timer (switches the radio off automatically when you have fallen asleep)
❻ DISPLAY		Switching of FM-frequency-indication to station names and back again
❼		Choice of sound:
NEWS		lower tone
NORM		normal
MUSIC		higher tone
❽		Folding stand (for angled setting of unit)
❾ 6V DC		Network-connection socket
❿		Stereo headphone connection jack
⓫ STAND BY		Alarm selection(HWS buzzer alarm or radio) and alarm time
⓬ M/27 MEMORIES		Memory button
⓭ PRESET/HOUR		Memory position selection button/hour setting button
⓮ TIME SET		Time button

Operating elements and their function

⓯ ATS-FM/MW METER-SW	Automatic station memory for FM and medium wave/ Metric choice for short wave
⓰ MMO./ST.-FM	Mono/Stereo-Switch for head-phone receiver
⓱ BANDS	Selection of frequency
⓲ TUNING/MIN	Selection of station/minute-setting button
⓳	Lock-locks all settings to avoid an accidental alteration
⓴ VOLUME	Volume regulation
㉑ 4x1,5V UM 3 SIZE 〝AA〞 (R6)	Battery compartment for 4 batteries 1.5V
㉒ RESET	Memory delete button

Display

- A Stereo display (for head-phone use)
- B Alarm set and type of alarm (HWS buzzer alarm or radio)
- C Radio Data System
- D Sleep timer
- E Snooze(interrupts alarm for 5 minutes)
- F Separate time indication for am and pm (optional)
- G Time
- H Setting functions blocked

Operating elements and their function

I Change battery
J Frequency and text indication
K Memory
L Memory number
M Frequency unit(kHz or Mhz)
N Shortwave metric band

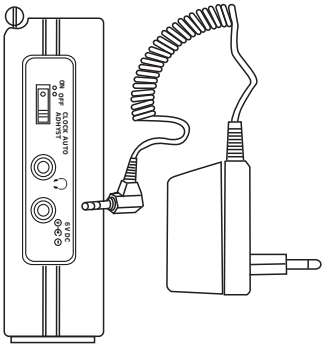
Features

- World receiver with 7 short-wave metric bands
- FM and medium wave with Auto Tuning System(ATS)
- FM reception of RDS-Stations
  (Radio Data System)
- Automatic time setting via RDS CT-Signal
- FM stereo reception via stereo headphones
- radio alarm
- HWS buzzer alarm
  (Human Wake System)
  =the waking tone starts quietly and slowly increases volume
  (if you do not switch if off)
- Interval alarm
  =alarm function is repeated every five minutes
- Snoozing automatic
  The radio switches itself off automatically after you have fallen asleep
- IIluminated LCD-Display

Initial use

Power Supply

The unit is suitable for use with
. four 1.5 V Mignon batteries (IEC 46 or UM 3 or AA)
. 6V mains receiver (with 6 mm ∅ plug, interior minus pole)for connection to the mains adaptor connection plug 9.

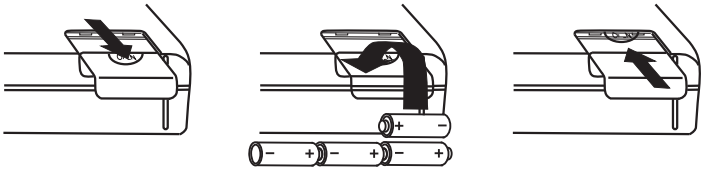


Changing batteries

When switching off the radio , the display indicates the word BAT -TERY for 4 seconds togther with a combination of figures.When less than 3figures ars shown, the batteries should be changed.

When the symbol„Battery empty" I is indicated , change batteries immediately.

Note
Empty battereis may leak and should therefore always be instantly replaced.



Open the sliding lid,place batteries into position according to dia -gram (observe correct pole position!)and then close compartment again.

Clock

A special storage memorises the set time and stored radio stations for a short time. The changing of the batteries should therefore not take longer than 3 minutes.

Switching unit on

Should you not be able to switch on the unit with the button POWER ❺, then relesase the operating lock ⓳/H.

Set time manually

After having positioned the batteries , „—:—″ is shown in the dis -play.
1.press the button TIME SET ⓮
„0:00″ or „AM 12:00″ flashes in the display
2.Set the actual time by means of the button HOUR ⓭
and MIN ⓲.
3.Confirm the input with the button TIME SET ⓮.
The clock starts at the second 0 .

Automatic Time Setting

If the switch„Clock Auto Set″ ❶ is ON when the radio is switched on and a radio station is received which sends the RDS CT- signal, the unit sets the exact time automatically.

Note
When receiving an RDS-Signal , the RDS-indicator C is shown in the display.
However , the RDS-station does not transmit the CT-signal continuously , so that it could take a few minutes before the exact time is indicated . The alarm does not work until the time has been set.

Alarm

If the switch„Clock Auto Set" 1 is OFF , then the time can not automatically be set.
Should the RDS CT-signal not be received for more than 10 days , the RDS-indication C in the display goes out and you have to newly tune to a RDS CT-station in order to set the exact time automatically.

Setting alarm

You can select whether you would like to be woken by the Human Wake Signal(=waking tone which slowly gets louder)or by radio.

HWS alarm

1 .Press the button STAND BY 11 once.
The word BUZZER shows in the display , the time indication flashes.
2 .Set the required alarm time with the buttons HOUR 13 and MIN 18
3 .Confirm the time by pressing the button STAND BY 11

Radio alarm

Tune the radio to the requested radio station which is to wake you.

1. Press the button STAND BY 11 twice.
The display indicates LAST CH, the time indication flashes.
2. Set the required waking time with the buttons HOUR 13
and MIN 18
3. Confirm the time by pressing the button STAND BY 11

The indication STAND BY B shows that the alarm has been set and also shows your choice of alarm (loudspeaker icon for radio; icon for HWS alarm).

Radio

Note
Should you want to alter the tuned radio station , then set the requested new station , press the button M 12, then press STAND BY 11 and then M 12 again for confirmation.

Switching off alarm

The alarm sounds for one hour or until it is switched off.
1. To switch off the alarm for that day , press the button POWER/SLEEP 5 or STAND BY 11
The alarm is switched off until the same time the next day.
2. To interrupt the alarm for 5 minutes , press any button , except POWER/SLEEP 5 , STAND BY 11 or the locking button 19.
The alarm tone is switched off and starts again after 5 minutes (for 1 hour or until it is switched off).

Radio

The unit is equipped with an ATS-function which enables the auto - matic reservation of the station storage for FM and medium wave. Where ever you are, the ATS-function searches for the respective stations for optimal reception and stores them in the memory posi -tions 1-9.
When less than 9 stations are received well enough , the unit shows which places are occupied.

ATS(Automatic Tuning System)

1.Switch on the radio with the button POWER/SLEEP 5
2.Select the requested frequency (FM or MW) with the button BANDS 17 .

3. Hold the button ATS/METER ⑮ for 2 seconds.
ATS is shown in the display and the radio starts with the search and storage of the radio stations.

When all 9 memory positions are full , the ATS-function stops at the stored place with optimal reception of the radio station.

Selecting of radio station

If you wish to select the radio stations yourself , you can use the automatic programme search.

Automatic programme search

1. Switch the radio on with with the button POWER/SLEEP ❺ .
2. Select the requested frequency (FM , MW or SW)by pressing the button BANDS ⑰
3. Press the button TUNING ⑱ -/backward or+/forward for a short time and then release.

The frequency indication now continues searching and stops at the next clear radio station.
By doing this , you can search the frequency band until you come to the station you would like to hear.

Note
When an RDS-station is received, the display shows the name of the station , not the frequency . If you would like to have the frequency indication , then press the button DISPLAY ❻ . After 4 seconds , the display switches back to the name of the station.
If you are tuned to a station without RDS-signal , then the display shows the frequency of the station , not the name.

Radio

Direct selection of station

If you know the frequency of the requested station , then you can set it directly.

1. Press the button TUNING/MIN 18 -/backward or+/forward until a frequency indication near to the requested frequency is shown and then let go.
2. In order to tune exactly to the requested station , press the button TUNING/MIN 18 -/backward or +/forward shortly several times.

The frequency moves one step further each time the button is pressed:

FM: 50 kHz
MW: 9 kHz or 10 kHz*
SW: 5 kHz

* Note
The radio normally uses 9 kHz-tuning steps.
To set to 10 kHz-steps(for North America and some countries in South America)switch to MW-tuning and press the button DISPLAY 6 for at least 5 seconds.
Then the display indicates 10 kHz.
Confirm by pressing the button DISPLAY 6 once more-thatis all.
Returning to 9 kHz requires the same procedure.

Short wave

To receive the short wave stations , you can select between 7 short -wave metre bands (49m-16m)by pressing the button ATS/ METER 15 .
The current metric band is indicated in the display N.

Radio

Station memory

It is possible to store 9 different FM , medium wave(MW)and Short wave (SW) stations.

1.Switch on the radio by pressing the button POWER/SLEEP ❺

2.Select the requested frequency band (FM , MW or SW) by pressing the button BANDS ⓱ and the station you would like to store by pressing the button TUNING/MIN ⓲.

3.Press the button M ⓬ and the select the requested storage position by pressing the button PRESET/HOUR ⓭ - or +.

4.Confirm by pressing the button M ⓬.

The station is stored, i.e.you may call on it by just pressing the button.

Note

When occupying any memory position , the station which might have been was stored before is automatically deleted.

When all 9 memory positions are occupied and you press the button M ⓬ , to store a new station , the display will indicate "FULL" .Press the button M ⓬ again and continue as explained above.

Calling up stored stations

1.Switch the radio on with the button POWER/SLEEP ❺ .

2.Select the requested frequency band (FM , MW or SW) by pressing the button BANDS ⓱.

3.Select the requested station by pressing the button PRESET/HOUR ⓭ -or +.

Radio

Alteration of memory positions

You can alter the sequence of the stored stations.
1.Call up the station which you would like alter.
2.Press the button M ⑫ and select the requested new position by pressing the button PRESET/HOUR ⑬ - or +.
3.Confirm by pressing the button M ⑫

You can also delete a stored position without occupying it again.
1.Call up the position you would like to delete by pressing the button PRESET/HOUR ⑬ - or +.
2.Press the button M ⑫ for at least 2 seconds
The display shows „DELETE".
3.confirm by pressing the button M ⑫
The position is deleted.

Memory Scan

It is possible to listen to the programme of each station for a short time by using the memory scan.
1.Select the requested frequency band(FM,MW or SW) by pressing the button BANDS ⑰.
2.Press the button PRESET/HOUR ⑬ -or +for at least 2 seconds.
The radio then scans the stored radio stations of the frequrncy band , playing each station for about 4 seconds.

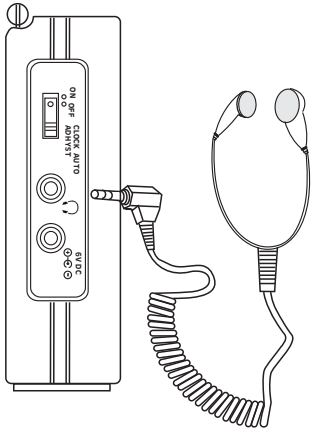
When you have found the correct station,then press the button PRESET/HOUR ⑬ or +again to keep this station.

Radio

Mono/Stereo

The radio is suitable to receive stereo transmissions.
In order to hear these in stereo, use the stereo head-phones.

If you connect the head-phones to the jacket ⑩ ,the stereo head -phones icon is shown in the dis -play and the loudspeakers are switched off.



Should the quality of the stereo transmission not be good , then you can switch to MONO (and back again)by pressing the but -ton MO./ST.-FM ⑯

Sleep Timer

The radio can be programmemed to play for a while and switch its -elf off.

1.Press the button POWER/SLEEP ⑤ for at least 2 seconds.
The display then shows 90 min-60 min-30 min-15 min in Sequence and then starts again with 90 min.

2.Release the button POWER/SLEEP ⑤ when the requested time is shown (e.g.30 min).
the radio switches itself off after 30 minutes.

Display illumination

By pressing the light button ④ , you can switch on the the display illumination to be able to see the display better and to make short settings.

Technical Data

Approx. 8 seconds after the last setting, the light switches itself off automatically.

RESET

Should you make a mistake,e.g.the display shows up wrong details , it is possible to switch the storage back to the original infor -mation.By doing this,all information stored up to that moment is deleted(time,alarm and stored stations)and must be newly pro -grammemed.

The RESET button is situated in the battery compartment in a small hole of the housing . Lt can be pressed by using e.g.a ball-point pen.

Technical Data

Frequency range			
Frequency range	FM	87,50 - 108	MHz
	or	76 - 108	MHz
	MW	522 - 1710	kHz(9 kHz interval
		520 - 1710	kHz(10kHz interval)
	SW	5,90 - 17,90	MHz
	49m	5,90 - 6,20	MHz
	41m	7,10 - 7,35	MHz
	31m	9,40 - 9,90	MHz
	25m	11,60 - 12,10	MHz
	21m	13,57 - 13,87	MHz
	19m	15,10 - 15,80	MHz
	16m	17,48 - 17,90	Mhz

Loudspeaker	8Ω,250 mW
Dimensions in mm	165x100x32
Weight	350 g excl batteries